

FAMOUS SCIENTIST DIES AFTER 85 YEARS OF TRAVEL AND STUDY

(From the London Times)

A Berlin correspondent announces the death, at 85, of Prof. Ernst Haeckel, at his home at Jena, after a long illness. His name was familiar in all scientific circles as a traveler, zoologist and materialistic philosopher, even more familiar to the unlettered as a popular expounder of the theory of evolution in its crudest form, and, since the outbreak of the war, notorious as a venomous protagonist of the German case.

Ernst Heinrich Haeckel was born at Potsdam, but passed his school days at Merseburg, where his father, Councillor Haeckel, had moved. As a boy he was interested in botany, and when he was about 18 years old it was decided that he should study at Jena under Schleiden, the famous botanist and first describer of the vegetable cell. An attack of rheumatism, contracted as the result of a fall into a river while in quest of a rare plant, changed his plans, and he studied medicine at Wurtzburg and at Berlin, where he owed much to the famous comparative anatomist, Johannes Muller. He took his doctor's degree in 1857, and went to Vienna for hospital experience.

Haeckel practiced as a physician only for a few years, during which he took little interest in his profession and gradually came to devote

himself entirely to zoology. In 1861, soon after Gegenbauer became professor of anatomy at Jena, Haeckel became a lecturer in the same university. A year later he was appointed extraordinary professor of zoology and director of the Zoological Institute and in 1865 full professor. At Jena he remained for the rest of his long life, refusing offers of preferment to other universities.

A Zoologist's Travels.

The duties of his post made it possible for him to indulge a taste for travel, which he turned to excellent zoological purpose. In 1855, after he had visited the Riviera with Kolliker, investigations that he conducted there resulted in a treatise on the microscopical anatomy of the crawfish. In 1859 he spent six months at Messina, where he worked at marine organisms and collected material for a monograph in two folio volumes on the Radiolaria.

In 1866 he visited Charles Darwin at Down, and then sailed for the Canaries, where he studied jellyfish, later on publishing some of his results in an important monograph on the Siphonophora. In 1869 he visited Scandinavia, 1871 Dalmatia, 1872 Greece, Asia Minor and the Red Sea, the last trip supplying materials for a work on Arabian corals. In succeeding years he visited Corsica and Sardinia, Ithaca and

Corfu, the Adriatic, and Brittany. In 1881 he went to Ceylon, in 1887 to Palestine, in 1897 to Russia, and in 1900 to Singapore, Java, and Sumatra. He wrote three volumes of travel, in which personal experiences and botanical, zoological, and anthropological observations were well described and pleasantly mingled.

Haeckel was a clever artist with brush and pencil and he brought back from his travels a series of landscapes of considerable technical merit. This talent he applied extensively to his work in systematic zoology. The memoirs to which reference has already been made and his four great contributions to the H. M. S. Challenger Reports—"Deep Sea Medusae" (1882), "Radiolaria" (1887), "Siphonophora" (1888), and "Deep Sea Keratosa" (1889)—were superbly illustrated with colored and uncolored drawings.

This facility improved the appearance rather than the value of his work. It was his habit to complete the drawings and to write the text from these rather than from the actual specimens and dissections. He was not infrequently misled by the tendency to schematize and to generalize which he had crystallized in artistic rather than scientific interpretation.

Convert to Darwinism.

Haeckel was one of the first of the German converts to Darwinism. He read the "Origin of Species" in 1860. The doctrine at once took shape in his mind as an infallible major proposition from which all the facts concerning the bodies of animals and plants and the minds of animals and man could be deduced as clear cut laws. It was an attitude totally different from that of the cautious Darwin, who worked by induction.

Haeckel had a shorter way with facts and with difficulties. He avoided them or denied them or invented more convenient substitutes. He hailed Darwin as the Copernicus of the organic world. Astronomers, following Copernicus and Kepler and Newton, predicted the existence of planets to explain perturbations; and the planets were generally found. Haeckel with equal certainty predicted, drew and described hypothetical animals to fill the gaps which he found in his scheme of creation. Unfortunately none of his hypothetical animals were discovered. In the progress of knowledge the fault has generally proved to be not with the Darwinian theory, but with Haeckel's schematic and dogmatic interpretation of it.

None the less, Haeckel achieved a great and in many ways a just reputation as a brilliant popular expositor of evolution. The doctrine had to be driven into the resistant heads of mankind against a prejudiced opposition often as schematic and as dogmatic as that of Haeckel. His "General Morphology of Organisms" (1866), "Natural History of Creation" (1868), "The Last Link" (1898), and the "Riddle of the Universe" (1901) were translated into many languages. Their simplicity and directness, and the prophetic assurance with which the doctrines were presented as the whole truth, gained for them a popularity that a more scientific spirit would have missed.

On Religious Problems.

Haeckel, like Huxley, passed from medicine to zoology, from zoology to philosophy, and from philosophy to a discussion of religious problems. Huxley addressed his technical works to scientific specialists, his more general essays and presentation of Darwinism to the general public, but his discussions of philosophy and of religion were never in the form of propaganda addressed to the ignorant.

Haeckel was as dogmatic certain of the nature of God, free will, good and evil, as of the shape of a jellyfish, and described them as positively. But Huxley, at least in his later writings, did not jar on minds accustomed to controversy even on grave themes. Haeckel became the tubthumper of what appeared crude atheism, and by his methods acquired an obnoxious reputation which his actual views hardly deserved.

If Haeckel had died ten years ago he would have had a more honorable place in English memory. Since then two events have taken place. The progress of exact scientific work discovered many flaws in his work, which he neither recognized nor attempted to correct. And his attitude in the war shocked most of his large circle of English admirers and friends. He was one of the signatories of the notorious letter issued in October, 1914, in which ninety-three leaders of German science and German thought proclaimed the German cause in its most aggressive form, denied the Belgian atrocities, and defended their Kultur and militarism.

Never a word came from him in protest against any of the successive crimes of Germany, and in letters to England, as when he resigned his membership of the Rationalist Press, he stated his undying hostility to this country. The English people are ready to make large allowances for patriotic feeling, even when exhibited by enemies, but the exuberance of his defense of Germany and the intolerant spite of his attitude to a country from which he had received so much honor and which he knew so well passed all limits.

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DEPORTATION HEARINGS WILL BE RESUMED IN DOUGLAS TOMORROW

DOUGLAS, Ariz., Sept. 13.—Preliminary hearings in the Bisbee deportation cases will be resumed before Justice W. C. Jack, in the local justice court, at 2 o'clock tomorrow afternoon, when the case of Harry C. Wheeler, former sheriff of Cochise county, will be called. Mr. Wheeler is charged with kidnapping for the part he played in the deportations.

Other cases set for Monday or to follow the conclusion of the Wheeler hearing, should the latter occupy more than one day, are those of John J. Bowen, county highway commissioner, Tom Madden, Ike Stafford, Ed Dickinson, W. J. Higgins and John Pickering, all of Bisbee, and Clarence Ingram of Patagonia, Ariz. All of the above named men, with the exception of Wheeler and Bowen, were served with warrants and placed under \$2,000 bond each, since the conclusion of the blanket warrant hearings, in which 200 men were jointly charged with kidnapping, Tuesday afternoon.

250 Bound Over.

A total of approximately 250 citizens of the Warren district and Douglas, including practically every mining man, city official and business and professional man of Bisbee, have already been bound over to trial in the superior court on charges of kidnapping. In all cases heard so far the defendants have been bound over for trial upon their own request. This action was taken in the joint hearing completed Tuesday before any testimony had been given against many of the defendants.

Interest in Wheeler's hearing throughout the county is far greater than that shown in any of the previous cases. Wheeler has repeatedly attempted to take the entire blame for credit for the deportations of July 12, 1917. As sheriff of Cochise county at the time of the I. W. W. trouble that led to the deportations from the Warren district, Wheeler

deputized hundreds of citizens in Bisbee, Douglas, Lowell, Warren and Bakerville and directed the incident of July 12th after having studied the situation in the Warren mining district for weeks.

According to reports from Tombstone, the elements back of the prosecution in the deportation cases are seeking vigorously to disqualify Judge A. C. Lockwood, superior court judge of Cochise county, from holding the trials of the defendants already bound over when these cases come up before the superior court. It is not expected that the cases will be started before a jury before the latter part of this year or the first of 1920 and, should the present court disqualify, it is not indicated as yet which superior court from some other county in the state will occupy the bench during the trials.

With the conclusion of the joint hearing Tuesday, the most unique train in the southwest, "The Kidnappers' Special," became a thing of the past. The "Kidnappers' Special," or "Deportation Special No. 2" had been running daily between Bisbee and Douglas throughout the big hearing, bringing 174 of the defendants to this city from the Warren district each afternoon and returning them in the evening. This special gained the credit of being the only train that ran on schedule to the minute during the strike of railway men in Southern California.

Moves to Court.

The end of the big hearing also has resulted in Justice Jack, who has heard all the preliminary cases called so far moving his courtroom from the Majestic theater, which was taken over for several weeks in order that there be plenty of room for the 200 defendants and the crowd of court employees, witnesses and attorneys, back to the city hall. The hearing of Wheeler, Bowen and others will be held in the courtroom in which the first group of 49 cases was conducted.

TEXAS AND ARIZONA OIL NEWS

The W. N. Wright No. 1 of the Ranger Island company was the surprise of last week in the Ranger field. Though in the big producing class for weeks, its jump in production from around 1000 to 5200 barrels a day was quite a boost to the field. Ultra-conservative reports place the production now at 3000 barrels.

The Rust No. 5 of the Sun company proved a disappointment making only 200 barrels. On the tract two other wells have been heavy producers. The Rust No. 6 was better than 3000 barrels. It came in July 19. The No. 4 came in late in July at a 2000-barrel clip. No. 5 is 3450 feet deep.

Pateet Well.

Root, Hupp & Duff's Pateet No. 4 well which came in four miles north of Eastland last Friday with initial production of 9000 barrels, has settled down to 5000 barrels and is making some salt water, but not in quantity sufficient to prove detrimental.

Ocean Oil

Ocean Oil and Refining Brooks No. 1 well drilled three feet into the first pay on top of black lime and is making about 1800 barrels of oil from a depth of 3330 feet. All of the storage tanks are filled and the well shut in to await the pipe line pumpers to take care of the oil.

The oil is 42 gravity paraffine base oil, the highest gravity oil yet found in the field. The well has 200 feet yet to go and will be completed in about ten days through the black lime to the pay sand.

Extensions

The Sinclair well on the McGlothlin farm, four miles southeast of Ranger, that came in last week, is said by oil men to mean a definite extension of the Ranger pool in that direction. The well produces from the same horizon as the principal wells in the Ranger pool. This well is at the edge of the right of way of the Hamon & Kell railroad.

The Hamil and other wells on the Lewis farm, four miles north of Desdemona, is an extension of the Duke Knowles pool. It is good for more than 2000 barrels a day.

Boston Banker Invests

H. W. Pennett of the banking firm of H. K. Bennett & Co., of Boston and New York, through the firm of Williams & Roots of Dallas, invested \$100,000 in oil properties in the Ranger and Desdemona fields. Speaking of the investment, Mr. Bennett said: "Boston capitalists through a syndicate will spend half a million dollars in the Ranger and Desdemona fields. We regard this property as proved stuff and we are not dealing in wildcat properties. Our firm has already placed a quarter of a million of the Hercules Petroleum and Ajax Oil companies in New England."

The Ranger field is one of the greatest that has been developed in the entire country, Mr. Bennett said. In most other fields, he said, it was necessary to pump the oil, whereas at Ranger it gushes, and has been gushing for more than a year. Moreover, the field is constantly being extended.

Pinched Down
It is estimated that if it were possible to handle the entire oil production in the north and north central Texas fields, the total would reach 325,000 barrels of oil daily. The present average is 250,000 barrels with scores of well shut off or pinched down by reason of storage and pipe line shortage. It is roughly estimated

ed that Burkburnett could increase its production 50,000 a day and Desdemona 25,000, with wells in unproven territory having a showing of oil that indicates an immense addition if facilities were at hand for handling the output.

Louisiana Wonder

The Standard Oil company's latest giant, the Louisiana Oakes, has presented another problem to the juggler of figures. It is now flowing at the astounding rate of 1700 barrels per day through a three-eighths inch pipe, as big as a lead pencil. If it should be turned loose—nobody knows the answer. The sand was struck unexpectedly after drilling through a gumbo and at first the well flowed over 1000 barrels in 40 minutes. The well is on the property of the famous "Bebe" Oakes, the baseball player. R. J. (Bob) Harman, another big leaguer, owns 936 acres nearby. Both are accounted millionaires now. Homer is the nearest town to this new wonder well.

Too Anxious

The state railroad commission has turned its attention to the Desdemona field where there is the same old trouble, transportation and storage. The commission holds that oil men drilling in known territory should know better than to bring their wells in until they are assured of sufficient storage. Over eagerness to see "what they've got" on the part of the operators appears to have been the difficulty, but now all are co-operating to prevent waste. The field is spreading out in three directions, west, north and east of the defined area. Desdemona still hopes to be the banner field of Texas and has a chance, once production can be realized to the limit. Several square miles has been added to the proven acreage in the past three weeks.

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